

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for ISOMENTHONE

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|--------------------------|------------------|---------|----------|----------------------|---|
| Acinos suaveolens | Essential Oil | | | | Jim Duke's personal files. |
| Acinos suaveolens | Shoot | 1090.0 | 3255.0 | 0.04526454076518935 | Tumen, G. 1991. The Volatile Constituents of Acinos suaveolens (Sibt. et Smith). G. Don fil. Growing in Turkey. J. Ess. Oil Res. 3:191-2. |
| Agastache pallidiflora | Plant | | | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Agastache urticifolia | Plant | | 962.0 | -0.41845686609644556 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Agathosma betulina | Leaf Essent. Oil | | | | -- |
| Agathosma betulina | Leaf | 5250.0 | 8750.0 | 2.193021261596281 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Barosma betulina | Leaf | 5250.0 | 8750.0 | 2.193021261596281 | -- |
| Calamintha nepeta | Plant | | 10.0 | -0.7102609508633784 | J. Ethnopharmacology, 39: 167. |
| Calamintha nepeta | Leaf | | 465.0 | -0.5269160366559925 | Akgul, A., De Pooter, H.L., and De Buyck, L.F. 1991. The Essential Oils of Calamintha nepeta subsp. glandulosa and Ziziphora clinopodioides from Turkey. J. Ess. Oil Res., 3: 7-10. |
| Cistus ladaniferus | Leaf | 23.0 | 1610.0 | -0.15101643418177982 | -- |
| Dracocephalum thymiflora | Plant | | 216.0 | -0.6471184703360799 | -- |
| Glechoma hederacea | Plant | | | | Chemical Constituents of Oriental Herbs (3 diff. books) |
| Hedeoma pulegioides | Essential Oil | | | | -- |
| Hedeoma pulegioides | Plant | 48.0 | 9300.0 | 2.137281010780324 | -- |
| Hedeoma pulegioides | Pollen Or Spore | | 8000.0 | | -- |
| Hedeoma drummondii | Plant | 13.0 | 3809.0 | 0.45419673614248024 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Lepechinia calycina | Plant | | 10.0 | -0.7102609508633784 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| Mentha spicata | Essential Oil | | | | -- |
| Mentha spicata | Leaf | 50.0 | 125.0 | -0.6385368793120907 | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|----------------------------------|---------------|---------|----------|---------------------|--|
| Mentha aquatica | Shoot | | | | Umamoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419. |
| Mentha aquatica | Shoot | | | | Umamoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419. |
| Mentha pulegium | Essential Oil | 12000.0 | 421000.0 | 1.0 | -- |
| Mentha pulegium | Plant | 0.0 | 8420.0 | 1.8675461425083695 | Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705. |
| Mentha aquatica | Shoot | | | | Umamoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419. |
| Mentha aquatica | Shoot | | 0.1 | -0.5336018108879219 | Umamoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419. |
| Mentha arvensis var. piperascens | Leaf | 300.0 | 600.0 | -0.4825959961896006 | -- |
| Mentha x piperita | Leaf | 30.0 | 1000.0 | -0.3512773577706616 | Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705. |
| Mentha longifolia | Shoot | 0.0 | 16065.0 | 2.323453721592974 | -- |
| Mentha aquatica | Shoot | | | | Umamoto, K., Arai, T., Nii, H. and Furukawa, K. 1993. A New Chemotype of Mentha aquatica Containing Sesquiterpene Alcohols as Major Components. Nippon Nogeikagaku Kaishi 67(10): 1417-1419. |
| Mentha aquatica | Leaf | 30.0 | 170.0 | -0.62376353248996 | -- |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-----------------------|-------|---------|----------|----------------------|--|
| Micromeria fruticosa | Shoot | | 245.0 | -0.49004767112330644 | Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of <i>Micromeria fruticosa</i> (L.) Druce subsp. <i>barbata</i> (Boiss et. Ky.), P.H. Davis. Aromatic Plants of the Holy Land and the Sinai. Part VII. J. Ess. Oil Res 3: 477-479. |
| Micromeria juliana | Leaf | | 230.0 | -0.6040657367271192 | Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . J. Ess. Oil Res., 3: 387-393. |
| Micromeria congesta | Leaf | | 80.0 | -0.6533102261342213 | Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . J. Ess. Oil Res., 3: 387-393. |
| Micromeria fruticosa | Leaf | 1110.0 | 7080.0 | 1.6447659461972108 | Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . J. Ess. Oil Res., 3: 387-393. |
| Micromeria dalmatica | Leaf | | 0.0 | -0.6795739538180091 | Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . J. Ess. Oil Res., 3: 387-393. |
| Micromeria myrtifolia | Shoot | | 0.0 | -0.5336195953467887 | Ozek, T., Kirimer, N., and Baser, K.H.C. 1992. Composition of the Essential Oil of <i>Micromeria myrtifolia</i> Boiss. et Hohen. J. Ess. Oil Res., 4: 79-80. |
| Micromeria fruticosa | Shoot | | 245.0 | -0.49004767112330644 | Fleisher, Z. and Fleisher, A. 1991. The Essential Oil of <i>Micromeria fruticosa</i> (L.) Druce subsp. <i>barbata</i> (Boiss et. Ky.), P.H. Davis. Aromatic Plants of the Holy Land and the Sinai. Part VII. J. Ess. Oil Res 3: 477-479. |
| Micromeria thymifolia | Leaf | | 695.0 | -0.4514078195651026 | Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . J. Ess. Oil Res., 3: 387-393. |
| Micromeria croatica | Leaf | | 600.0 | -0.4825959961896006 | Kirimer, N., Ozek, T., and Baser, K.H.C. 1991. Composition of the Essential Oil of <i>Micromeria congesta</i> . J. Ess. Oil Res., 3: 387-393. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-----------------------------------|---------------|---------|----------|----------------------|--|
| <i>Minthostachys mollis</i> | Shoot | 23.0 | 44.0 | -0.5257944334454286 | Alkire, B.H., Tucker, A.O., and Maciarelo, M.J. 1994. Tipo (<i>Minthostachys mollis</i> (Lamiaceae): An Ecuadorian Mint. Econ. Bot. 48(1): 60-64. |
| <i>Moldavica thymiflora</i> | Plant | | 216.0 | -0.6471184703360799 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Monarda lindheimeri</i> | Plant | | 18.0 | -0.7078088156972697 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Monarda didyma</i> | Flower | | | | Flavour and Fragrance Journal, 6: 80. |
| <i>Monarda russeliana</i> | Plant | | 207.0 | -0.6498771223979521 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Monarda fistulosa</i> | Plant | 12.0 | 146.0 | -0.6685746530395309 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Monarda citriodora</i> | Plant | | 34.0 | -0.7029045453650523 | -- |
| <i>Monarda punctata</i> | Plant | 24.0 | 243.0 | -0.6388425141504631 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Monarda didyma</i> | Leaf | 15.0 | 25.0 | -0.6713665389168254 | -- |
| <i>Pelargonium graveolens</i> | Essential Oil | 8.0 | 38.0 | -1.0 | -- |
| <i>Pelargonium roseum</i> | Shoot | | 1188.0 | -0.32234022401006673 | -- |
| <i>Pelargonium citrosum</i> | Shoot | | 155.0 | -0.5060536841033612 | Matsuda, B. M., et al. 1996. Essential Oil Analysis and Field Evaluation of the Citrosa Plant ' <i>Pelargonium citrosum</i> ' as a Repellent Against Populations of <i>Aedes</i> Mosquitoes. J. Am. Mosq. Contr. Assoc. 12(1):69-74. |
| <i>Pycnanthemum montanum</i> | Shoot | 42.0 | 4848.0 | 0.3285709705121574 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum tenuifolium</i> | Shoot | 1.0 | 10580.0 | 1.347976152752974 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum californicum</i> | Shoot | | 3708.0 | 0.12582813943146462 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum verticillatum</i> | Shoot | | 147.0 | -0.5074764408126994 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |

| Plant | Part | Low PPM | High PPM | StdDev | Reference |
|-------------------------------------|--------|---------|----------|----------------------|--|
| <i>Pycnanthemum pilosum</i> | Flower | 494.0 | 2940.0 | | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum incanum</i> | Shoot | 352.0 | 931.0 | -0.36804628329755623 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum setosum</i> | Shoot | 180.0 | 279.0 | -0.4840009551086191 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum beadleii</i> | Shoot | | 35.0 | -0.5273950347434341 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum pycnanthemoides</i> | Shoot | 390.0 | 580.0 | -0.43046973391976956 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum torreyi</i> | Shoot | | 310.0 | -0.4784877728599336 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum muticum</i> | Shoot | 29.0 | 2100.0 | -0.16014595914551252 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum clinopodioides</i> | Shoot | 21.0 | 528.0 | -0.4397176525304678 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum albescens</i> | Shoot | 80.0 | 270.0 | -0.4856015564066246 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum virginianum</i> | Shoot | 102.0 | 22533.0 | 3.4737525210929046 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Pycnanthemum pilosum</i> | Leaf | 494.0 | 2940.0 | 0.2856180385611923 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Ribes nigrum</i> | Bud | | | | -- |
| <i>Satureja glabella</i> | Plant | | 7040.0 | 1.4445528263546226 | -- |
| <i>Satureja douglasii</i> | Plant | 13.0 | 4277.0 | 0.5976466433598379 | Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980. |
| <i>Satureja grandiflora</i> | Shoot | | 965.0 | -0.3619995672828689 | Carnat, A., Chossegros, A., and Lamaison, J. 1991. The Essential Oil of <i>Satureja grandiflora</i> (L.) Scheele from France. J. Ess. Oil Res., 3: 361-362 |